

Figure 10. Ratio of mitochondrial RNA and chromosome encoded RNA in PBMC's cultured in the presence of DDC for 5 days.

Figure 11. Comparison of SNRNP DNA NASBA reactions with and without pre-treatment with restriction enzyme Msp I.

Figure 12. Fluorescence in time of the reactions of 1000 molecules plasmid containing Snrp DNA mixed with  $4 \times 10^5$  (A),  $2 \times 10^5$  (B),  $10^5$  (C),  $5 \times 10^4$  (D),  $2.5 \times 10^4$  (E) or  $10^4$  (F) molecules of plasmid containing mitochondrial DNA. The curve (G) of the ratio of the amount of molecules of amplified mitochondrial DNA to Snrp nuclear DNA plotted against ratio of the slope of the corresponding fluorescence in time.

Figure 13. Fluorescence in time of the reactions of 1000 molecules plasmid containing Snrp DNA mixed with  $4 \times 10^5$  (A),  $2 \times 10^5$  (B),  $10^5$  (C), or  $5 \times 10^4$  (D) molecules of plasmid containing mitochondrial DNA. The standard curve (E) of the ratio of the amount of molecules of amplified plasmid mitochondrial DNA to plasmid Snrp nuclear DNA plotted against ratio of the slope of the corresponding fluorescence in time as derived from the figures A-D; closed circles indicate data points. The 1:10 (F, H) and 1:100 (G,I) dilutions of PBMC in the absence (F, G) and presence of  $5 \mu\text{M}$  ddC (H, I). In figure E, the squares represent the PBMC samples cultured in the absence of ddC and the diamonds represent PBMC samples cultured in the presence of  $5 \mu\text{M}$  ddC.

Figure 14. Mitochondrial DNA copies per chromosomal DNA copy in 4 blood PBMC samples of a HIV-1 infected patient that died of lactic acidosis. For further explanation of time points see text.